## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**:

- (original) A process for removing DOC from a concentrated salt solution containing DOC, said process comprising;
  - (i) contacting the salt solution with a coagulant and/or flocculant such that the DOC becomes insoluble in the salt solution; and
  - (ii) removing the insoluble DOC from the salt solution.
- (currently amended) A process according to claim 1 wherein the
  concentrated salt solution containing DOC is a solution produced as a byproduct from regenerating ion-exchange resin which have has been
  previously used to remove DOC from raw water.
- (original) An industrial scale process for the removal of DOC from water containing DOC, said process comprising:
  - (i) contacting the water with ion-exchange resin to enable adsorption of DOC on the resin;
  - (ii) separating the resin loaded with DOC from the water;
  - (iii) regenerating at least a portion of the separated resin by contacting it with a concentrated salt solution containing a source of anions such that the anions exchange with DOC adsorbed on the resin;
  - (iv) separating the regenerated resin from the concentrated salt solution containing DOC;

- (v) contacting the solution from step (iv) with a coagulant and/or flocculant such that the DOC becomes insoluble in the salt solution;
- (vi) removing insoluble DOC from the salt solution.
- 4. (original) A process according to claim 3 wherein the ion exchange resin has a density great than the water and the resin loaded with DOC is separated from the water by settling.
- 5. (original) A process according to claim 4 wherein the resin is collected by vacuum collection.
- 6. (original) A process according to claim 3 wherein the regenerated resin is separated from the concentrated salt solution containing DOC by filtering through a mesh of appropriate porosity.
- 7. (original) An industrial scale process for the removal of DOC from water containing DOC, said process comprising:
  - (i) contacting the water with ion-exchange resin to enable adsorption of DOC on the resin;
  - (ii) separating the resin loaded with DOC from the water;
  - (iii) regenerating at least a portion of the separated resin and recycling the remainder to step (i), wherein the resin is regenerated by contacting it with a concentrated salt solution containing a source of anions such that the anions exchange with the DOC adsorbed on the resin;
  - (iv) separating the regenerated resin from the concentrated salt solution containing DOC;

- (v) recycling the regenerated resin back to step (i);
- (vi) contacting the separated salt solution from step (iv) with a coagulant and/or flocculant such that the DOC becomes insoluble in the salt solution;
- (vii) removing insoluble DOC from the salt solution to regenerate concentrated salt solution; and
- (viii) recycling concentrated salt solution back to step (iii).
- 8. (currently amended) A process according to claim 3 or claim 7 which is used in the treatment of a raw water source to produce potable water for distribution and consumption.
- 9. (original) A process according to claim 7 wherein the regenerated salt solution obtained from step (vii) is treated with a base.
- 10. (original) A process according to claim 7 wherein the regenerated concentrated salt solution is obtained from step (vii) has a pH of 7-II.
- 11. (currently amended) A process according to any one of claims claim 2-to 10 wherein the ion-exchange resin is magnetic ion-exchange resin.
- 12. (original) A process according to claim 11 wherein the magnetic ion-exchange is MIEX® resin.
- 13. (currently amended) A process according to any one of claims claim 1, 3 or 7-wherein the coagulant/focculant is selected from aluminium sulphate (alum), polyaluminum chloride, aluminium chlorohydrate, polyaluminium chlorohydrate, ferric chloride, ferric sulphate, polymerised ferric sulphate, polyDADMACS, polyacrylamide emulsion polymers, coagulant aids, and filter aids.

- 14. (original) A process according to claim 13 wherein the focculant/coagulant is selected from Ferric Chloride, Ferric Sulphate, polymerised Ferric sulphate and Aluminium sulphate (Alum).
- 15. (currently amended) A process according to any one of claims claim 1, 3 or 7-wherein the concentrated salt solution is a concentrated inorganic salt solution selected from NaCl, KCl, NH<sub>4</sub>Cl, CaC<sub>l2</sub> and MgCl<sub>2</sub> or mixtures thereof.
- (original) A process according to claim 15 wherein the concentrated salt solution is a brine solution.
- 17. (currently amended) A process according to claim 15 or claim 16 wherein the salt solution has a concentration of greater than 1.5M, or 100 grams of total dissolved salt in a mixture of salts per litre of water.
- (currently amended) A process according to any one of claims claim 1, 3 or
   7-wherein the step of contacting the salt solution with a coagulant and/or flocculant is conducted under acidic conditions.
- 19. (original) A process according to claim 18 wherein the pH is less than 3.
- 20. (currently amended) A process according to any one of claims claim 1-to 17 wherein the step of contacting the salt solution with a coagulant and/or flocculant further includes the addition of an acid.
- 21. (original) A process according to claim 20 wherein the acid is selected from HCI, HNO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub>.
- 22. (original) A process according to claim 21 wherein the acid is HCI.
- 23. (currently amended) A process according to any one of claims claim 20 to 22 wherein the pH is about 2.

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- 24. (currently amended) A process according to any one of claims claim 1-to 23 wherein the insoluble DOC is removed from the salt solution by filtration.
- 25. (original) A process according to claim 24 wherein the filtration method is a plate and frame filter process.
- 26. (currently amended) A process according to any one of claims claim 1-to 25 wherein the DOC which is removed from the salt solution is used as a fertilizer, feed-stock, soil conditioner, or health supplement.
- 27. (currently amended) A process according to any one of claims claim 1-to 25 wherein the DOC which is removed from the salt solution is used as land fill.